

National Functional Guidelines Report #03

Lab DATAAC(ALS Environmental) SDG F2A63 Case 43795 Contract EPW11037 Region 6 DDTID 183119 SOW SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	BNA
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F2A65, F2A67, F2A71, F2A73, F2A85, F2A89, F2A93, SBLK01
	Pentachlorophenol SSTD020GX
	F2A65, F2A67, F2A71, F2A73, F2A85, F2A89, F2A93, SBLK01

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Data Review Reports

Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. F2A63, F2A69, F2A71, F2A75, F2A81, F2A83, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B11 Benzo(k)fluoranthene F2A81, F2A83, F2A85, F2A89, F2A91, F2B11 Anthracene F2A89, F2A91 Fluoranthene F2A69, F2A71, F2A75, F2A81, F2A85, F2A87, F2B11 Benzo(g,h,i)perylene F2A75, F2A81, F2A83, F2A85, F2A89, F2A91 Phenol F2A89 Pyrene F2A69, F2A71, F2A75, F2A81, F2A83, F2A85, F2A89, F2B03, F2B11 Indeno(1,2,3-cd)pyrene F2A69, F2A71, F2A75, F2A81, F2A83, F2A85, F2A89, F2A91, F2B11 Benzo(a)anthracene F2A69, F2A81, F2A83, F2A85, F2A89, F2B11 Chrysene F2A69, F2A71, F2A75, F2A81, F2A83, F2A85, F2A89, F2B03, F2B11 Phenanthrene F2A69, F2A81, F2A83, F2A85, F2A89, F2B11 Acenaphthene F2A87, F2A91 Carbazole F2A89, F2A91 Benzo(b)fluoranthene F2A63, F2A69, F2A71, F2A75, F2A81, F2A83, F2A85, F2A87, F2A89, F2B03, F2B11 Benzaldehyde F2A71, F2A85, F2A89, F2A91, F2A93, F2B11 Benzo(a)pyrene F2A69, F2A71, F2A75, F2A81, F2A83, F2A85, F2A89, F2A91, F2B11 Acetophenone F2A71, F2A85, F2A89, F2A91, F2A93, F2B11 Dimethylphthalate F2A81, F2A89 Bis(2-ethylhexyl)phthalate F2A81, F2A83, F2A85, F2A89, F2B03 Dibenzo(a,h)anthracene F2A91

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Data Review Reports

Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F2A63, F2A65, F2A69, F2A69DL, F2A75, F2A77, F2A81, F2A83, F2A83DL, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B05, F2B07, F2B09, F2B11
	Benzo(k)fluoranthene F2A65, F2A89, F2A93, F2B11
	Fluoranthene F2B05, F2B07
	Anthracene F2A63, F2A65, F2A69DL, F2A75, F2A81, F2A83, F2A83DL, F2A85, F2A93, F2B03, F2B07
	Benzo(g,h,i)perylene F2A65, F2A77, F2A89, F2A91, F2B03, F2B09
	Fluorene F2A69, F2B05, F2B07
	Naphthalene F2A93, F2B07
	Indeno(1,2,3-cd)pyrene F2A89, F2A93, F2B03, F2B09, F2B11
	Acenaphthylene F2A63, F2A69, F2A69DL, F2A75, F2A81, F2A85, F2A87, F2B03
	Benzo(a)anthracene F2B03, F2B05, F2B09
	Chrysene F2B07, F2B09
	Phenanthrene F2B07, F2B09
	Acenaphthene F2A69, F2A83
	Benzo(a)pyrene F2A93, F2B03, F2B09
	Dibenzo(a,h)anthracene F2A63, F2A69DL, F2A75, F2A77, F2A81, F2A83DL, F2A85, F2A87, F2B03

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Data Review Reports

Initial Calibration

Initial Calibration	BNA
BC5	The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified. Use professional judgement to qualify non-detected compounds.
	F2A65, F2A67, F2A71, F2A73, F2A85, F2A89, F2A93, SBLK01
	Pentachlorophenol SSTD020GL
	F2A65, F2A67, F2A71, F2A73, F2A85, F2A89, F2A93, SBLK01

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Lab DATAAC(ALS Environmental) **SDG** F2A63 **Case** 43795 **Contract** EPW11037 **Region** 6 **DDTID** 183119 **SOW** SOM01.2

Data Review Reports

Initial Calibration

Initial Calibration	BNA_SIM
BC5	The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified. Use professional judgement to qualify non-detected compounds.
	F2A63, F2A65, F2A67, F2A69, F2A69DL, F2A71, F2A73, F2A75, F2A77, F2A81, F2A83, F2A83DL, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B05, F2B07, F2B09, F2B11, SBLK01
	Pentachlorophenol SSTD001GG
	F2A63, F2A65, F2A67, F2A69, F2A69DL, F2A71, F2A73, F2A75, F2A77, F2A81, F2A83, F2A83DL, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B05, F2B07, F2B09, F2B11, SBLK01

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Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatle sample. Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F2A63, F2A65, F2A67, F2A69, F2A71, F2A73, F2A75, F2A77, F2A81, F2A83, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B05, F2B07, F2B09, F2B11, SBLK01
	Hexylene glycol F2A65, F2A67, F2A71, F2A77
	Hexadecanamide F2A65, F2A67, F2A71, F2A73, F2A77, F2A85, F2A89, F2A93, SBLK01
	Dodecanamide F2A91, SBLK01
	1-Eicosene F2A91
	Tetradecanamide F2A69, F2A71, F2A85, F2A91, F2A93, F2B11, SBLK01
	1-Octadecene F2A71, F2A77, F2A83, F2B11
	Phenol, 4,4'-(1-methylethylidene)bis- F2A89
	Perylene F2A91
	Octacosyl trifluoroacetate SBLK01
	Sulfurous acid, octadecyl 2-propyl ester F2A93
	Decahydro-4,4,8,9,10-pentamethylnaphthalene F2B05, F2B07
	o-Cymene F2B07
	9-Octadecene, (E)- F2A71, F2A93
	5-Octadecene, (E)- F2A83, F2A89
	E-15-Heptadecenal F2A85, F2A89, F2A91, SBLK01
	Naphthalene, decahydro-, cis- F2B07
	Caryophyllene F2B11
	Decanamide- F2A65
	Sulfurous acid, butyl octadecyl ester F2A93
	9-Octadecenamamide, (Z)- F2A63, F2A65, F2A67, F2A69, F2A71, F2A73, F2A75, F2A77, F2A81, F2A83, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B09, F2B11, SBLK01
	Cetene F2A77, F2A85, F2A91, F2B11, SBLK01
	Naphthalene, decahydro-2-methyl- F2B05, F2B07
	Sulfurous acid, butyl heptadecyl ester F2A85
	n-Hexadecanoic acid F2A89, F2A93, F2B11
	Octadecanamide F2B11

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Data Review Reports

TIC

TIC	BNA
	trans-Decalin, 2-methyl- F2B05
	1-Methyldecahydronaphthalene F2B07
	9-Eicosene, (E)- F2A89, F2A93, SBLK01
	16-Hentriacontanone F2A93
	1-Docosene F2A93, F2B11, SBLK01
	Naphthalene, 1,6,7-trimethyl- F2B07
	Dodecanoic acid F2A93
TIC	BNA
BTIC2	A library search indicates a match below 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F2A63, F2A65, F2A67, F2A69, F2A71, F2A73, F2A75, F2A77, F2A81, F2A83, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B05, F2B07, F2B09, F2B11, SBLK01
	Unknown 2-Propanone, 1-hydroxy- F2A85
	Unknown 6-Tridecanone F2A85
	Unknown Carotol F2B11
	Unknown 5,7-Octadien-4-one, 2,6-dimethyl-, (E)- F2B07
	Unknown Cyclohexene, 1-ethyl- F2B05
	Unknown cis,cis-1,6-Dimethylspiro[4.5]decane F2B05
	Unknown Propanenitrile, 3,3'-thiobis- F2A93
	Unknown 5H-Pyrrolo[3,4-b]pyrazine-5,7(6H)-dione, 6-(phen F2A85
	Unknown 3-Pyridinecarboxylic acid, 1,2,5,6-tetrahydro-1- F2A85, F2B11, SBLK01
	Unknown 2-Methyl-2-butenitrile F2A71
	Unknown Ethanol, 2,2'-oxybis- F2A67, F2A71, F2A85, F2A93, F2B11
	Unknown 1,2-Benzenedicarboxylic acid F2A89
	Unknown Bicyclo[2.2.1]heptan-2-ol, 3,3-dimethyl-, exo- F2B07
	Unknown 2,6-Diphthalimidopyridine F2A67
	Unknown 2-Undecanone F2A91
	Unknown cis, cis-2-Ethylbicyclo[4.4.0]decane F2B07
	Unknown trans, cis-2-Ethylbicyclo[4.4.0]decane F2B07

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Data Review Reports

TIC

TIC	BNA
	Unknown Oxalic acid, cyclohexylmethyl isohexyl ester F2B07
	Unknown 8-Octadecanone F2B11
	Unknown 1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,7b-octah F2A91
	Unknown Cyclohexanecarboxylic acid, 4-propyl-, 4-cyanoph F2B07
	Unknown 1-(p-Fluorophenyl)-4-piperidone F2B05
	Unknown 4H-Cyclopenta[def]phenanthrene F2A91
	Unknown Pentanoic acid F2A93
	Unknown Hexane, 1-(3-butenyloxy)- F2A83
	Unknown Oxalic acid, hexadecyl 1-menthyl ester F2B05
	Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1 F2B05, F2B07
	Unknown 2-Propyltetrahydropyran F2A91, F2A93
	Unknown 3-Ethyl-3-methyl-2-pentanol F2A91
	Unknown Heptane, 2,4-dimethyl- F2A73
	Unknown 1-Methyl-2-methylenecyclohexane F2B05
	Unknown 2-Hexanone F2A89, F2B11
	Unknown 2H-Pyran-2-one, 6-hexyltetrahydro- F2A85, F2A89, F2A93
	Unknown Dodecanamide F2A85, F2A89
	Unknown 1,2,3-Propanetriol, 1-acetate F2A71, F2A89, F2A91, F2B11
	Unknown 4(1H)-Pyrimidinone, 5-methyl-2-(methylthio)- F2A89
	Unknown Myristin, 1,3-diaceto-2- F2A67
	Unknown 9-Acetylphenanthrene F2A93
	Unknown Oxalic acid, cyclobutyl heptadecyl ester SBLK01
	Unknown 3-Pentenoic acid, 3-methyl-, methyl ester F2A91
	Unknown 9,19-Cyclolanost-25-en-3-ol, 24-methyl-, (3.beta F2A63
	Unknown Hexylene glycol F2A69, F2A73, F2A83, F2A85, F2A89, F2A91, F2B11
	Unknown Benzene, 1,3-dimethyl-5-(1-methylethyl)- F2B05, F2B07
	Unknown Phosphine, (pentamethylphenyl)- F2B05

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Data Review Reports

TIC

TIC	BNA
	Unknown Cyclohexane, (2-ethyl-1-methyl-1-butenyl)- F2B05
	Unknown Hexane, 2-bromo- F2B11
	Unknown 2-Propanone, 1,1-dipropoxy- F2A65
	Unknown p-Benzophenetidide F2B11
	Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenzoc]thie F2A71
	Unknown Thiophene, 2,5-bis(1,1,3,3-tetramethylbutyl)- SBLK01
	Unknown Furan-2-carboxamide, N-ethyl-N-(3-methylphenyl)- F2B09
	Unknown Ethanone, 1-(3-ethyloxiranyl)- F2A71
	Unknown 1H-Pyrazole, 1-ethyl-4-(4,4,5,5-tetramethyl-1,3, F2B05
	Unknown 2,4-Pentanedione, 3-acetyl- F2A71
	Unknown 2,3-Butanedione F2A65
	Unknown Butylated Hydroxytoluene SBLK01
	Unknown (2,3-Diphenylcyclopropyl)methyl phenyl sulfoxide F2B03
	Unknown Sulfurous acid, butyl heptadecyl ester F2B05
	Unknown 2,5-Hexanedione F2A65, F2A67, F2A71, F2A73, F2A85
	Unknown Naphthalene, decahydro-2,6-dimethyl- F2B07
	Unknown Oxazole, 2,4-dimethyl- F2A65
	Unknown Methyl ethyl cyclopentene F2B07
	Unknown 3-Acetylphenanthrene F2A89, F2B11
	Unknown Octadecane, 1-(ethyloxy)- F2A89
	Unknown Naphthalene, decahydro-1,5-dimethyl- F2B05
	Unknown Tetradecanamide F2A91, F2B11
	Unknown 9-Octadecenamide, (Z)- F2A71, F2A93, F2B07
	Unknown 2-(2-Hydroxycycloheptyl)-furan F2B05
	Unknown Oxalic acid, cyclohexylmethyl nonyl ester F2B07
	Unknown 1H-Pyrrole-2,5-dione F2A63, F2A65, F2A67, F2A69, F2A71, F2A73, F2A75, F2A77, F2A81, F2A83, F2A85, F2A87, F2A89, F2A91, F2A93, F2B03, F2B09, F2B11, SBLK01
	Unknown trans,trans-1,6-Dimethylspiro[4.5]decane F2B05, F2B07

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Data Review Reports

TIC

TIC	BNA
	Unknown 2-Pyrrolidinone F2A85
	Unknown Cyclopentene, 5-hexyl-3,3-dimethyl- F2B05, F2B07
	Unknown Butanoic acid, 3-oxo-, 2,2,2-trichloroethyl este F2A89, F2A93
	Unknown 2-Chloro-4-trifluoromethylphenyl isothiocyanate F2A93
	Unknown Cobalt, (1,5-cyclooctadiene)(.eta.-5-1-methylind F2A65
	Unknown 8-Pentadecanone F2A89, F2A93, F2B11, SBLK01
	Unknown 5-Dodecyne F2B05
	Unknown 7,7-Dimethyl-2,3-dioxobicyclo[2.2.1]heptane-1-ca F2A71, F2A93
	Unknown 3-Hexene-2,5-dione F2A65, F2A73, F2A83, F2A89, F2A91
	Unknown Cyclododecene, 1-methyl- F2B05, F2B07
	Unknown Oxalic acid, isobutyl nonyl ester F2B07
	Unknown 4,8-Dimethylbicyclo[3.3.1]nonane-2,6-dione F2B05
	Unknown 2(SH)-Furanone, 3,5,5-trimethyl- F2A65, F2A71, F2A91
	Unknown Silane, chlorodiethylpentyloxy- F2B05
	Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-dien F2A93, F2B11
	Unknown TATP F2A89, F2B11
	Unknown Cyclohexene, 3-methyl-6-(1-methylethyl)- F2B05
	Unknown Furan, 2,5-dihydro-2,2,4-trimethyl- F2A83
	Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.3.0.0(4), F2B09
	Unknown Naphthalene, 2,3,6-trimethyl- F2B05
	Unknown 3-Tetradecene, (E)- F2B07
	Unknown Decahydro-4,4,8,9,10-pentamethylnaphthalene F2B03
	Unknown Phthalic acid, monoethyl ester F2A93
	Unknown 16-Hentriacontanone F2A89, F2A91
	Unknown Dodecanoic acid, 2-hydroxy-1-(hydroxymethyl)ethy F2A73
	Unknown Oxazole, 4-ethyl-2,5-dimethyl- F2B05
	Unknown Cyclohexanecarboxamide F2B11

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Data Review Reports

TIC

TIC	BNA
	Unknown Octadecanoic acid, ethenyl ester F2A89, F2A91
	Unknown 2H-Pyran-2-one, 6-heptyltetrahydro- F2B11
	Unknown 1-(1-Propynyl)cyclohexanol F2B05
	Unknown Ethanone, 1-cyclopentyl- F2B07
	Unknown Eicosanoic acid, 2,3-bis(acetyloxy)propyl ester F2A67
	Unknown Palmitic acid vinyl ester F2A71
	Unknown 10-Nonadecanone F2A89, F2A93
	Unknown 5-Nonanone, 2,8-dimethyl- SBLK01
	Unknown Phthalic anhydride F2A65, F2A67, F2A69, F2A71, F2A73, F2A77, F2A85, F2A89, F2A91, F2A93, F2B11
	Unknown Carbonic acid, allyl cyclohexylmethyl ester F2B07
	Unknown Oxalic acid, 6-ethyloct-3-yl heptyl ester F2B05
	Unknown 3-Ethoxyphenylacetone hydroxyoxime F2B05
	Unknown Oxalic acid, hexyl propyl ester F2A91
	Unknown Ethanone, 1-oxiranyl- F2A65, F2A69
	Unknown 2(3H)-Furanone, 5-acetyldihydro- SBLK01
	Unknown 2-Pentanone, 3-methyl- F2A63, F2A65, F2A67, F2A69, F2A71, F2A75, F2A77, F2A81, F2A83, F2A85, F2A89, F2A91, F2A93, F2B03, F2B09, F2B11
	Unknown Hexane, 1,1'-oxybis- F2A89, F2B09
	Unknown 3-Penten-2-one, 4-(acetyloxy)-, (Z)- F2A71
	Unknown 1-Naphthalenemethanamine, .alpha.-methyl-, (R)- SBLK01